Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-5 (canceled)

6. (Original) A process for removing 1,1,1,3,3-pentafluorobutane from a mixture containing 1,1,1,3,3-pentafluorobutane and at least one impurity, the process comprising adding hydrogen fluoride to a mixture containing 1,1,1,3,3-pentafluorobutane and at least one impurity in an amount sufficient to form an azeotrope-like composition of the 1,1,1,3,3-pentafluorobutane and the hydrogen fluoride, and thereafter separating the azeotrope-like composition from the impurity.

7. (Original) The process of claim 6 wherein the impurity does not form an azeotropic mixture with 1,1,1,3,3-pentafluorobutane, hydrogen fluoride or a mixture of 1,1,1,3,3 pentafluorobutane and hydrogen fluoride.

8. (Original) The process of claim 7 wherein the impurity comprises a halocarbon.

9. (Original) The process of claim 8 wherein the impurity comprises 1,1,1,3,3-hexachlorobutane.

10. (Original) The process of claim 6 wherein the impurity is miscible with 1,1,1,3,3-pentafluorobutane.

11. (Original) The process of claim 6 wherein the separating is conducted by distillation.

12. (Original) The process of claim 6 further comprising the step of separating 1,1,1,3,3-pentafluorobutane from an azeotropic mixture of 1,1,1,3,3-pentafluorobutane and hydrogen fluoride using pressure swing distillation.

13. (Original) The process of claim 6 wherein the azeotrope-like composition consists essentially of from about 90 weight percent to about 96 weight percent 1,1,1,3,3-pentafluorobutane and from about 4 to about 10 weight percent hydrogen fluoride.

14. (Original) A method of forming an azeotrope-like composition which comprises blending from about 90 weight percent to about 96 weight percent 1,1,1,3,3-pentafluorobutane and from about 4 to about 10 weight percent hydrogen fluoride, which composition has a vapor pressure of about 15 psia to about 22 psia at about 20.2 ºC or a vapor pressure of above 29 psia to about 36 psia at about 40.2 ºC.